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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/710,390	11/09/2000	HORST GRAFE	DT-3734	5453
30377 7	590 06/17/2004		EXAM	INER
DAVID TOR		DRUAN, THOMAS J		
SIDLEY, AUSTIN, BROWN & WOOD, LLP 787 SEVENTH AVENUE			ART UNIT	PAPER NUMBER
,	NY 10019-6018		3724	
			DATE MAILED: 06/17/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/710,390	GRAFE ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Thomas J. Druan, Jr.	3724	
	The MAILING DATE of this communication a	ppears on the cover sheet	vith the correspondence address	
Period fo		N V 10 CET TO EVDIDE 21	MONTH(S) FROM	
THE - Exte after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of the provisions of the provisio	N. 1.136(a). In no event, however, may a reply within the statutory minimum of the od will apply and will expire SIX (6) Mo tute. Cause the application to become	a reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status				
1)[\]	Responsive to communication(s) filed on 1/	<u>16/04 & 3/19/04</u> .		
•	1 This action is FINAL . 2b)⊠ This action is non-final.			
3)	— which is a support for formal matters, prosecution as to the merits is			
,	closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C	.D. 11, 453 O.G. 213.	
Disposit	tion of Claims			
•	Claim(s) <u>10-12 and 14-17</u> is/are pending in	the application.		
, ,,	4a) Of the above claim(s) is/are without	drawn from consideration.		
5)[Claim(s) is/are allowed.			
•	Claim(s) <u>10-12 and 14-17</u> is/are rejected.			
	Claim(s) is/are objected to.			
8)	Claim(s) are subject to restriction an	d/or election requirement.		
Applica	tion Papers			
9)[The specification is objected to by the Exam	niner.		
10)	The drawing(s) filed on is/are: a)	accepted or b)☐ objected	to by the Examiner.	
	Applicant may not request that any objection to	the drawing(s) be held in abe	/ance. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the cor	rection is required if the drawi	ng(s) is objected to. See 37 CFR 1.121(d).	
11)[The oath or declaration is objected to by the	e Examiner. Note the attact	ned Office Action of John 210-192.	
	under 35 U.S.C. § 119			
12)⊠	Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C	;. § 119(a)-(d) or (f).	
ļ	ı)⊠ All b)□ Some * c)□ None of:			
	 Certified copies of the priority docum 	ents have been received.	A Rocker Ma	
	2. Certified copies of the priority docum	nents have been received in	Application No	
	3. Copies of the certified copies of the	priority documents have be	en received in this National Stage	
	application from the International Bu	reau (PC) Rule 17.2(a)).	not received	
*	See the attached detailed Office action for a	list of the certified cobies t	, 10001Y04.	
Attachme		4) 🗍 Intende	w Summary (PTO-413)	
1) No 2) No	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-948	Paper	No(s)/Mail Date	
3) 🔲 Info	ormation Disclosure Statement(s) (PTO-1449 or PTO/SE	3/08) 5) LI Notice	of Informal Patent Application (PTO-152)	
	ormation Disclosure Statement(s) (P10-1449 of P10/56 per No(s)/Mail Date	6) Other:		

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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DETAILED ACTION

Request for Continued Examination

1. The Request for Continued Examination (RCE) filed on 16 January 2004 under 35 CFR 1.114 is acceptable. An action on the RCE and on Amendments filed 1/16/04 and 3/19/04 follows.

Priority

- 2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

4. Claims 10-12 & 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 2,076,969 to Sieger in view of USPN 5,207,138 to Sato et al.

Sieger discloses the invention substantially as claimed including a shear device for cutting a strip, said shear device comprising a frame 4e, an upper blade assembly 4c (a drum as seen by substantially equal radii along a diameter which includes a upper blade 4a) and a lower blade assembly 4d (a beam bridge as seen by a reduced radius opposite a lower blade 4b), wherein said upper blade assembly and lower blade assembly are permanently rotationally connected via intermeshing gears (p. 1, column 2, lines 48-51) which have

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diameters corresponding roughly to the diameters of respective blades (fig. 1) and would inherently be manufactured so as to be backlash free. The different diameters of the intermeshing gears will produce a different but finite number of rotations of the upper and lower blades through a cutting zone. Roller means 19 is connected to an adjusting means 23 which is synchronized to move the roller to lift a strip before passing of the lower blade and to lower the strip before passing of the upper blade (p. 2, column 2, lines 50-62). The roller means will accomplish this as the upper blade will passing a cutting zone while the roller is lowered (as shown to be slightly after the position in fig. 1) and will be raised while the lower blade is in a cutting zone (during a cutting action).

Sieger discloses an upper blade assembly having a smaller diameter than its lower blade assembly, though it would have been obvious to one skilled in the art at the time of the invention to switch the position of the upper blade assembly with the lower blade assembly since simple reversal of parts is old and well known in the art that, and having a smaller diameter lower cutting assembly would allow more room for the strip to be directed under table 3.

Sieger does not disclose an upper blade drum and lower blade drum as claimed; however, it would have been obvious to one skilled in the art at the time of the invention to provide the combination of an upper blade drum and lower blade drum or the combination of an upper beam bridge and lower blade drum since these combinations are art recognized equivalents for the purpose of shearing a strip material passing therebetween. Sato et al. discloses an example of an upper blade drum 53 and lower blade drum 54.

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Sieger does not disclose two pinch-roller sets in front of and behind the upper and lower blade assemblies; however, it is old and well known in the arts to provide a shearing device with upstream and downstream pinch rollers in order to tension the strip being cut by cooperating cutting devices since tensioning a web facilitates cutting. Sato et al. discloses an example of these pinch rollers 89.

5. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sieger in view of Sato et al. in further view of USPN 3,037,396 to Martin.

The combination of Sieger in view of Sato et al. discloses the invention substantially as claimed, but lacks the specific means to minimize backlash.

Martin teaches providing a lower blade drum 4 with two gear portions 29/30 axially divided with the two gear portions secured together with a bolt 37 so as to angularly position the gear portion with respect to one another, thereby preventing backlash (column 3, lines 16-23). Therefore, it would have been obvious to use the gear portions of Martin in the shear device of Sieger in view of Sato et al. in order to prevent backlash.

Response to Arguments

6. Applicant's arguments filed 1/16/04 have been fully considered but they are not persuasive. Applicant contends that Sieger does not disclose a roller means that cooperates with one of hydraulic, mechanical, driving and adjusting means an operation of which is synchronized with passing of a respective one of

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the second lower and first upper blades through the blade gap between the first upper and second lower drums.

Applicant's arguments are not persuasive. The invention of Sieger deals with a shearing apparatus for transversely cutting strip material while in motion with roller means 19 connected to an adjusting means 23 which is synchronized to move the roller to lift a strip before passing of the lower blade and to lower the strip before passing of the upper blade (p. 2, column 2, lines 50-62). The roller means will accomplish this as the upper blade will passing a cutting zone while the roller is lowered (as shown to be slightly after the position in fig. 1) and will be raised while the lower blade is in a cutting zone (during a cutting action).

Applicant has not argued why the above is in contention, but merely states that Sieger does not disclose the claim limitations of the now canceled claim 13 which have been put into claims 10, 16 and 17. Therefore, the Examiner believes that the rejection continues to be proper.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Druan, Jr. whose telephone number is 703-308-4200. The examiner can normally be reached on M-F (8:30-6:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Allan N. Shoap can be reached on 703-308-1082. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

fjd June 14, 2004

Allan N. Shoap Supervisory Patent Examiner Group 3700